SEQUENCE LISTING

<110> Kaneka Corporation,
Nagoya Industrial Science Research Institute (Chubu Technology Licensing Office)

<120> Method of expressing gene in transgenic birds using retrovirus vector and transgenic birds thus obtained

<130> T753/TRANS-1

<150> JP P2002-236089
<151> 2002-08-13

<160> 37

<210> 1
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer used for PCR amplification of the Miw promoter 5' region fragment

<400> 1
cggtctagag gaattcagtg gttcg 25

<210> 2
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the Miw promoter 5' region fragment

<400> 2
ccaggatccg acgttgtaaa acgacg 26

<210> 3
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the

Hind III recognition site at the 5' terminal used for PCR amplification of the Miw promoter 3' region fragment

<400> 3
ccaaagcttg ccgcagccat tgcctttt 28

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Bln I recognition site at the 5' terminal used for PCR amplification of the Miw promoter 3' region fragment

<400> 4
atacctaggg gctggctgcg gaggaac 27

<210> 5
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Nhe I recognition site at the 5' terminal used for PCR amplification of the chicken beta-actin promoter fragment lacking the intron

<400> 5
tttagctagc tgcagctcag tgcatgcac 29

<210> 6
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Xba I recognition site at the 5' terminal used for PCR amplification of the chicken beta-actin promoter fragment lacking the intron

<400> 6
ataatctaga aacgcagcga ctcccgc 27

<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain kappa constant region

<400> 7
atcctcgaga ggccaaagta cagtg 25

<210> 8
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain kappa constant region

<400> 8
cccggatccc taacactctc ccctgttgaa gct 33

<210> 9
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain variable region

<400> 9
agcggccgct acaggtgtcc actccgacat cgtgatgacc cagtctcc 48

<210> 10
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain variable region

<400> 10
cctctcgagg atagaagtta ttcagcaggc acac 34

<210> 11
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain mu constant region

<400> 11
acctcgagcg tggccgttgg ctgcctcgca ca 32

<210> 12
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain mu constant region

<400> 12
actaagctta cgttgtacag ggtgggttta cc 32

<210> 13
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody

heavy chain variable region

<400> 13
agcggccgct acaggtgtcc actccgaggt gcagctggtg gagtctgg 48

<210> 14
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain variable region

<400> 14
cacgctcgag gtatccgacg gggaattctc acagga 36

<210> 15
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Hind III recognition site at the 5' terminal used for DNA polymerase reaction to construct the coding fragment of the human epidermal growth factor receptor transmembrane region

<400> 15
cccaagcttg atctccactg ggatggtggg ggccctcctc ttgctgctg 49

<210> 16
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for DNA polymerase reaction to construct the coding fragment of the human epidermal growth factor receptor transmembrane region

<400> 16
cccggatcct cagtcaaggc gccttcgcat gaagaggccg atccccaggg ccaccaccag 60

cagcaagagg agggcccc 78

<210> 17
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed oligonucleotide used for site-directed mutagenesis to generate the Nar I recognition site at the 3' terminal of the coding fragment of the human antibody light chain variable region

<400> 17
tgaagacaga tggcgccgcc acagttcgtt t 31

<210> 18
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed oligonucleotide used for site-directed mutagenesis to generate the BamH I recognition site at the 3' terminal of the coding fragment of the human antibody heavy chain variable region

<400> 18
tggggcggat gcggatcctg aggagacggt 30

<210> 19
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody light chain variable region

<400> 19
cgcggccgcc tcagggaaag tttgaagatg 30

<210> 20
<211> 36

<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Nar I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody light chain variable region

<400> 20
cggcgccgcc acagtccgtt ttatttccag cttggt 36

<210> 21
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody heavy chain variable region

<400> 21
cgcggccgcg aacacggamc cctcaccatg 30

<210> 22
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody heavy chain variable region

<400> 22
cggatcctgc agagacagtg accagagt 28

<210> 23
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer used for PCR

amplification of the coding fragment of the human antibody heavy chain gamma-1 constant region

<400> 23
caagcttcaa gggcccat 18

<210> 24
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 constant region

<400> 24
atttacccgg agacaggga 19

<210> 25
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 constant region

<400> 25
ataggatccg ctagcttcaa gggcccatcg 30

<210> 26
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 constant or Fc region

<400> 26
agcaagcttt catttacccg gagacaggga 30

<210> 27
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the chicken beta-actin promoter fragment lacking the intron

<400> 27
acgcgtcgac gtgcatgcac gctcattg 28

<210> 28
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the chicken beta-actin promoter fragment lacking the intron

<400> 28
acgcgtcgac aacgcagcga ctcccg 26

<210> 29
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the antibody kappa light chain

<400> 29
aatgtcgaca tggtgtccac ttctcagctc 30

<210> 30
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the antibody kappa light chain

<400> 30
ttcgtcgacc taacactctc ccctgttgaa 30

<210> 31
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the IRES fragment

<400> 31
acgcgtcgac cgcccctctc cctccccc 28

<210> 32
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the IRES fragment

<400> 32
ccgctcgaga ttatcatcgt gtttttcaaa ggaaaaccac gtc 43

<210> 33
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed oligonucleotide acting as a sense chain in annealing to construct the coding fragment of the chicken lysozyme secretion signal

<400> 33

ctagaccatg aggtctttgc taatcttggt gctttgcttc ctgcccctgg ctgctctggg 60
g 61

<210> 34
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed oligonucleotide acting as an anti-sense chain in annealing to construct the coding fragment of the chicken lysozyme secretion signal

<400> 34
ccccagagca gccaggggca ggaagcaaag caccaagatt agcaaagacc tcatggt 57

<210> 35
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the Dra I recognition site at the 5' terminal used for PCR amplification of the scFv coding fragment

<400> 35
gcgtttaaag tgacgttgga cgtccg 26

<210> 36
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the scFv coding fragment

<400> 36
attaggatcc gcgcttaagg acggtcagg 29

<210> 37
<211> 35

<212> DNA
<213> Artificial Sequence

<220>
<223> Designed sequence of a 5'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain gamma-1 Fc region

<400> 37
attaggatcc gagcccaaat cttgtgacaa aactc 35